

Estimates

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1(a) Estimate 3.9×11.1

(Level 3)

[2 marks]

Answer _____

1(b) Estimate 2001×31.01

[2 marks]

Answer _____

1(c) Estimate 49.53×120.12

[2 marks]

Answer _____

Turn over for next question

2 Tom sells 1506 books at a cost of £6.95 (Level 4)
Estimate the total amount of money Tom has made from selling his books

[2 marks]

Answer: £ _____

3 Sarah needs to buy 30 packs of printer paper and 42 printer ink cartridges. (Level 4)
Each pack of printer paper costs £1.75 and ink cartridges cost £4 each.
Estimate how much these items will cost.

[3 marks]

Answer _____

Turn over for next question

4(a) Work out an estimate for:

(Level 4)

$$\frac{24.38 \times 3.1}{3.89 \times 2.1}$$

[3 marks]

Answer _____

4(b) Work out an estimate for:

$$\frac{30.11 + 19.3}{1.22 \times 5.23}$$

[3 marks]

Answer _____

4(c) Work out an estimate for:

$$\frac{20.2 \times 99.5}{11.11 - 5.95}$$

[3 marks]

Answer _____

Turn over for next question

5 Jake is buying tiles for his floor. (Level 4)
His floor is $5.78\text{ m} \times 7.98\text{ m}$

5(a) Estimate the area of Jake's floor.

[2 marks]

Answer _____ m^2

5(b) Was this estimate an over or under estimate?
Give a reason for your answer.

[2 marks]



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- 6(a)** James runs half a mile and records his time at 6.23 minutes. (Level 4)
Estimate how long it would take for James to run 10 miles.

[2 marks]

Answer _____ minutes

- 6(b)** James goes for another for 1 mile and records his time as 12.89 minutes.
He estimates that he can run 10 miles in 2 hours.
Is James correct?
Give a reason for your answer.

[3 marks]

Answer £: _____

- 7** Jonah has 394 guests, and each requires one glass of juice each. (Level 4)
Estimate how many cartons of juice he will need if each carton has enough to fill 9.5 glasses?

[2 marks]

Answer _____

End of questions